

CLAIMS

1. A glass substrate for an information recording medium,
having a fragility index value, measured in water, of $12 \mu\text{m}^{-1/2}$
5 or less.
2. A glass substrate for an information recording medium,
having a fragility index value, measured in an atmosphere
having a dew point of -5°C or lower, of $7 \mu\text{m}^{-1/2}$ or less.
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3. A glass substrate for an information recording medium,
having a fragility index value, measured in water, of $12 \mu\text{m}^{-1/2}$
or less and having a fragility index value, measured in an
atmosphere having a dew point of -5°C or lower, of $7 \mu\text{m}^{-1/2}$ or
15 less.
4. The glass substrate for an information recording
medium as recited in claim 1, 2 or 3, comprising, by mol%,
greater than 65 %, as a total, of SiO_2 and at least one of B_2O_3
0 and Al_2O_3 , 0 to 20 % of RO in which R is at least one member
selected from the group consisting of Ma, Ca, Zn, Sr and Ba, 0
to 28 % of $\text{R}'_2\text{O}$ in which R' is at least one member selected
from the group consisting of Li, Na and K, 0 to 10 % of TiO_2
and 0 to 10 % of ZrO_2 , the total content of said components
25 being at least 95 mol%.
5. A glass substrate for an information recording medium,
comprising, by mol%, 40 to 75 % of SiO_2 , 2 to 45 % of B_2O_3
and/or Al_2O_3 and 0 to 40 % of $\text{R}'_2\text{O}$ in which R' is at least one
30 member selected from the group consisting of Li, Na and K),
wherein the total content of SiO_2 , B_2O_3 , Al_2O_3 and $\text{R}'_2\text{O}$ is at
least 90 mol%.
6. The glass substrate for an information recording
35 medium as recited in claim 5, having a fragility index value,
measured in water, of $12 \mu\text{m}^{-1/2}$ or less.

7. The glass substrate for an information recording medium as recited in claim 5, having a fragility index value, measured in an atmosphere having a dew point of -5°C or lower, of $7\ \mu\text{m}^{-1/2}$ or less.

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8. The glass substrate for an information recording medium as recited in any one of claims 1, 2, 3 and 5, having a Young's modulus of at least 70 GPa.

10 9. The glass substrate for an information recording medium as recited in any one of claims 1, 2, 3 and 5, having a modulus of rigidity of at least 20 GPa.

15 10. The glass substrate for an information recording medium as recited in any one of claims 1, 2, 3 and 5, which is made of a glass having a region wherein the glass has a viscosity of at least 1 Pa's, in a range of temperatures equivalent to, and higher than, a liquidus temperature of the glass.

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11. The glass substrate for an information recording medium as recited in any one of claims 1, 2, 3 and 5, which is made of a glass having a thermal expansion coefficient of $60 \times 10^{-7}/^{\circ}\text{C}$ or greater at a temperature of from 100°C to 300°C .

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12. The glass substrate for an information recording medium as recited in any one of claims 1, 2, 3 and 5, which has no chemically strengthened layer.

30 13. The glass substrate for an information recording medium as recited in any one of claims 1, 2, 3 and 5, which has a chemically strengthened layer.

35 14. A magnetic information recording medium comprising a magnetic recording layer formed on the glass substrate for an information recording medium recited in any one of claims 1,

2, 3 and 5.